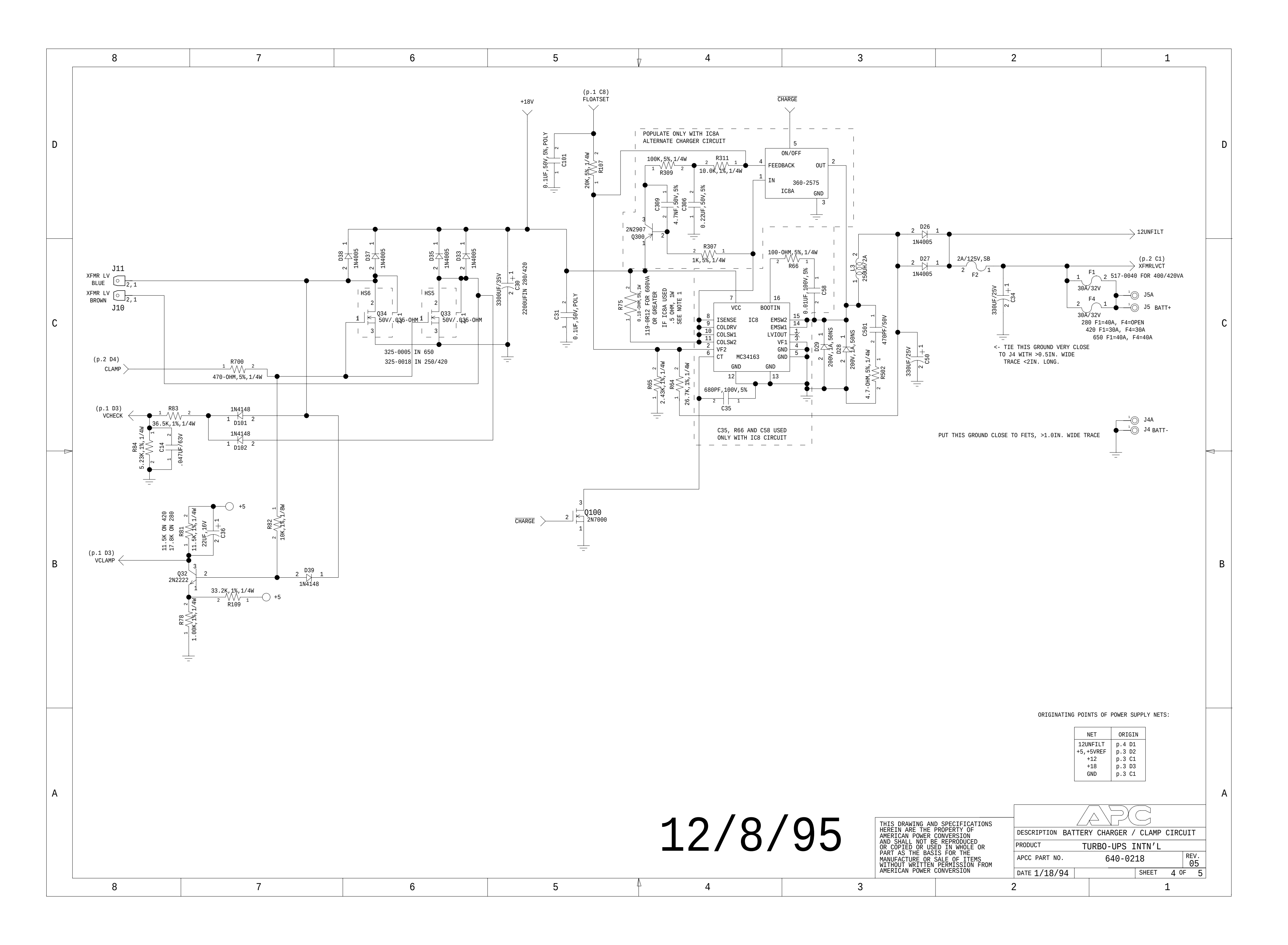

8 7 6 5 4 3 2 1
D C B A
+18V
(p.1 C8) FLOATSET
CHARGE
POPULATE ONLY WITH IC8A ALTERNATE CHARGER CIRCUIT
0.1UF,50V,5%,POLY C101
20K,5%,1/4W R107
100K,5%,1/4W R309
R311 10.0K,1%,1/4W
ON/OFF FEEDBACK IN OUT GND IC8A 360-2575
C309 4.7NF,50V,5%
C306 0.22UF,50V,5%
2N2907 Q300
R307 1K,5%,1/4W
100-OHM,5%,1/4W R66
0.01UF,100V,5% C58
D26 1N4005
12UNFILT
D27 1N4005
2A/125V,SB F2
(p.2 C1) XFMRLVCT
L3 250UH/2A
F1 30A/32V
517-0040 FOR 400/420VA
J5A
J5 BATT+
F4 30A/32V
280 F1=40A, F4=OPEN
420 F1=30A, F4=30A
650 F1=40A, F4=40A
330UF/25V C34
<- TIE THIS GROUND VERY CLOSE TO J4 WITH >0.5IN. WIDE TRACE <2IN. LONG.
XFMR LV BLUE J11
XFMR LV BROWN J10
D38 1N4005
D37 1N4005
D35 1N4005
D33 1N4005
HS6 Q34 50V/.035-OHM
HS5 Q33 50V/.035-OHM
3300UF/35V C30 2200UFIN 280/420
325-0005 IN 650
325-0018 IN 250/420
C31 0.1UF,50V,POLY
R75 0.18-OHM,5%,1W
119-0R12 FOR 600VA OR GREATER
IF IC8A USED .5 OHM, 1W SEE NOTE 1
VCC BOOTIN ISENSE COLDRV COLSW1 COLSW2 VF2 CT IC8 MC34163 EMSW2 EMSW1 LVIOUT VF1 GND GND GND
D29 200V,1A,50NS
D28 200V,1A,50NS
C501 470PF/50V
4.7-OHM,5%,1/4W R502
330UF/25V C50
R65 2.43K,1%,1/4W
R64 26.7K,1%,1/4W
680PF,100V,5% C35
C35, R66 AND C58 USED ONLY WITH IC8 CIRCUIT
(p.2 D4) CLAMP
R700 470-OHM,5%,1/4W
(p.1 D3) VCHECK
R83 36.5K,1%,1/4W
1N4148 D101
1N4148 D102
R84 5.23K,1%,1/4W
C14 .047UF/63V
J4A
J4 BATT-
PUT THIS GROUND CLOSE TO FETS, >1.0IN. WIDE TRACE
CHARGE
Q100 2N7000
+5
11.5K ON 420 17.8K ON 280
R81 11.5K,1%,1/4W
22UF,16V C36
R82 10K,1%,1/8W
(p.1 D3) VCLAMP
Q32 2N2222
D39 1N4148
33.2K,1%,1/4W R109
+5
R78 1.00K,1%,1/4W
ORIGINATING POINTS OF POWER SUPPLY NETS:
NET | ORIGIN
12UNFILT | p.4 D1
+5,+5VREF | p.3 D2
+12 | p.3 C1
+18 | p.3 D3
GND | p.3 C1
12/8/95
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APC
DESCRIPTION BATTERY CHARGER / CLAMP CIRCUIT
PRODUCT TURBO-UPS INTN'L
APCC PART NO. 640-0218
REV. 05
DATE 1/18/94
SHEET 4 OF 5